

CONSTRUCTION COST ROLLUP FOR BASIC COST OF CONSTRUCTION AND TOTAL INITIAL PROJECT COST - 35% DESIGN							
		2008		Mid-Construction			
		Update		2011			
	Section	Total Cost		Total Cost			
Port Mac Ind.	2	\$9,537,761		\$10,520,341			
West Approach	3	\$25,223,059		\$27,821,536			
Bridge	4	\$258,922,238		\$285,596,381	Contractor-Type		
East Approach	5	\$71,915,029		\$79,323,709	Bridge Estimate		
POA	6	\$6,069,435		\$6,694,708			
Security Wall	7	\$12,248,000		\$13,509,788			
Cherry Hill	8	\$27,265,656		\$30,074,562			
Gov't Hill	9	\$65,092,000		\$71,797,771			
	Toll System	\$3,700,000		\$4,081,174			
	Environmental	\$10,000,000		\$11,030,199			
	Basic Cost of Construction Total:	\$489,973,179		\$540,450,168	< \$600 million Basic Cost of Construction		
	15% Contingency	\$73,495,977		\$81,067,525			
	5% Design/Engr	\$24,498,659		\$27,022,508			
	5% Construction Mgt	\$24,498,659		\$27,022,508			
	ROW	\$6,500,000		\$7,169,629			
	Total Initial Project Cost	\$618,966,474		\$682,732,339			

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

Port Mac North Industrial Route Construction Cost Estimate

2008 Dollars

Item	Unit	Cost/ Unit	Qty	Total Cost
Clearing and Grubbing	Acre	\$4,000.00	70	\$ 280,000
Clearing	Acre	\$3,000.00	17	\$ 51,200
Common Excavation	CY	\$5.00	452,712	\$ 2,263,561
Excav. (as borrow elsewhere)	CY	\$0.00	425,291	\$ -
Borrow, Type A	CY	\$10.00	83,935	\$ 839,349
Stone Mastic	TN	\$90.00	10,466	\$ 941,933
AC Pavement, Type II Cl A	TN	\$82.00	10,466	\$ 858,205
Base Course	TN	\$25.00	34,600	\$ 865,000
Topsoil and Seed	MSF	\$400.00	2,090	\$ 836,000
Intersection	EA	\$200,000	1	\$ 200,000
Maintenance Facility	LS		1	\$ 1,500,000
Striping	LF	\$1.50	74,342	\$ 111,514
Signs	SF	\$80.00	200	\$ 16,000
Culverts	LF	\$125.00	3,000	\$ 375,000
Surveying - All	All	\$100,000	-	\$ 100,000
Demolition	All	\$50,000	-	\$ 50,000
Traffic Control	All	\$100,000	-	\$ 100,000
Silt Fence/ Erosion Protection	All	\$150,000	-	\$ 150,000
Cost per Mile (millions)			\$2.71	
			Total:	\$ 9,537,761
			Total w/ 15%	
			Contingency:	\$ 10,968,426

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

West Approach

Construction Cost Estimate

2008 Dollars

Item	Unit	Cost/ Unit	Qty	Total Cost
Vibracompaction (Below elev 20')	SY	\$35.00	56,990	\$ 1,994,662
Borrow, Type A	CY	\$10.00	21,926	\$ 219,260
Borrow, Type C	CY	\$10.00	538,163	\$ 5,381,630
Fill Below elev 20'	CY	\$15.00	433,279	\$ 6,499,185
Stone Mastic	TN	\$90.00	1,611	\$ 144,990
AC Pavement, Type II Cl A	TN	\$82.00	1,611	\$ 132,102
Base Course	TN	\$25.00	8,520	\$ 213,000
Armor Rock	CY	\$100.00	78,014	\$ 7,801,400
Filter Rock	CY	\$75.00	20,120	\$ 1,509,000
Topsoil and Seed	MSF	\$400.00	500	\$ 200,000
Guardrail	LF	\$35.00	4,541	\$ 158,928
Concrete Barrier	LF	\$75.00	2,270	\$ 170,280
Striping	LF	\$1.50	9,082	\$ 13,622
Signs	SF	\$100.00	100	\$ 10,000
Culverts	LF	\$125.00	1,000	\$ 125,000
Surveying - All	All	\$250,000	-	\$ 250,000
Silt Fence/ Erosion Protection	All	\$400,000	-	\$ 400,000
Cost per Mile (millions)			\$58.66	
			Total:	\$ 25,223,059
			Total w/ 15% Contingency:	\$ 29,006,518

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

Bridge

Construction Cost Estimate 2008 Dollars

Item	Unit	Cost/ Unit	Qty	Total Cost
48" Diameter Pipe Piles	Tons	\$4,388	12454	\$ 54,641,925
48" Diameter Pipe Piles (Driven)	EA	\$51,975	156	\$ 8,108,100
48" Diameter Pipe Field Splices	EA	\$3,375	312	\$ 1,053,000
Steel Pile Caps	Tons	\$7,425	1,200	\$ 8,910,000
Concrete Pile Fill	CY	\$290	7,000	\$ 2,031,750
Abutment Concrete	CY	\$743	3,000	\$ 2,227,500
Abutment Concrete Reinforcing	Tons	\$2,295	200	\$ 459,000
Super Structure-Structural Steel	Tons	\$7,553	18,700	\$ 141,245,775
Curb Reinforced Concrete	CY	\$270	1,430	\$ 386,100
Curb Reinforcing Steel	Tons	\$2,363	100	\$ 236,250
Bridge Rail	Tons	\$1,310	1,200	\$ 1,571,400
Deck Metalizing	SY	\$175.50	40,000	\$ 7,020,000
Rubberized Asphalt Paving	Tons	\$344.25	4,100	\$ 1,411,425
Asphalt Paving	Tons	\$209.25	8,200	\$ 1,715,850
Lighting	LF	\$83.03	16,500	\$ 1,369,913
Signs & Miscellaneous	All			\$ 270,000
10' Diameter Energy Absorbers	EA	\$28,350.00	12	\$ 340,200
Small Rubber Energy Absorbers	All	\$37,800		\$ 37,800
Mobilization	All			\$ 25,886,250
Cost per Mile (millions)			\$167	
			Total:	\$ 258,922,238
			Total w/ 15%	
			Contingency:	\$ 297,760,573

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

East Approach

Construction Cost Estimate 2008 Dollars

Item	Unit	Cost/ Unit	Qty	Total Cost
Vibracompaction (Below elev 20	SY	\$35.00	165,832	\$ 5,804,120
Borrow, Type A	CY	\$18.00	99,397	\$ 1,789,146
Borrow, Type C	CY	\$12.00	1,078,625	\$ 12,943,500
Fill Below elev 20'	CY	\$18.00	763,000	\$ 13,734,000
Stone Mastic	TN	\$90.00	7,304	\$ 657,360
AC Pavement, Type II Cl A	TN	\$82.00	7,304	\$ 598,928
Base Course	TN	\$25.00	38,624	\$ 965,600
Armor Rock	CY	\$100.00	256,450	\$ 25,645,000
Filter Rock	CY	\$75.00	61,923	\$ 4,644,225
Topsoil and Seed	MSF	\$400.00	3,000	\$ 1,200,000
Guardrail	LF	\$35.00	20,381	\$ 713,328
Concrete Barrier	LF	\$75.00	10,190	\$ 764,280
Security Fencing (Chain Link)	LF	\$70.00	7,920	\$ 554,400
Striping	LF	\$1.50	40,762	\$ 61,142
Signs	SF	\$80.00	500	\$ 40,000
Drainage System	LS	\$500,000	1	\$ 500,000
Surveying - All	All	\$300,000	-	\$ 300,000
Silt Fence/ Erosion Protection	All	\$1,000,000	-	\$ 1,000,000
Cost per Mile (millions)			\$37.26	
			Total:	\$ 71,915,029
			Total w/ 15% Contingency:	\$ 82,702,284

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

**MOA Port Expansion
Construction Cost Estimate
2008 Dollars**

Item	Unit	Cost/ Unit	Qty	Total Cost
Borrow, Type A	CY	\$18.00	29,967	\$ 539,406
Borrow, Type C	CY	\$12.00	93,337	\$ 1,120,044
Stone Mastic	TN	\$90.00	2,251	\$ 202,590
AC Pavement, Type II Cl A	TN	\$82.00	2,251	\$ 184,582
Base Course	TN	\$25.00	9,621	\$ 240,525
Sheet Pile (Open Cell)	Tons	\$3,000.00	146	\$ 438,000
Topsoil and Seed	MSF	\$400.00	250	\$ 100,000
Guardrail	LF	\$35.00	6,336	\$ 221,760
Concrete Barrier	LF	\$75.00		\$ -
Security Fencing (Chain Link)	LF	\$70.00	6,336	\$ 443,520
Lighting	LF	\$100.00	3,200	\$ 320,000
Striping	LF	\$1.50	12,672	\$ 19,008
Signs	SF	\$80.00	500	\$ 40,000
Drainage System	LS		1	\$ 1,500,000
Surveying - All	All	\$100,000	-	\$ 100,000
Traffic Control	All	\$100,000	-	\$ 100,000
Silt Fence/ Erosion Protection	All	\$500,000	-	\$ 500,000
Cost per Mile (millions)			\$10.12	
			Total:	\$ 6,069,435
			Total w/ 15% Contingency:	\$ 6,979,850

**KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE
DECEMBER 2008**

Security Wall

Construction Cost Estimate

2008 Dollars

Item	Unit	Cost/ Unit	Qty	Total Cost
Excavation (Waste)	CY	\$12.00	125,000	\$ 1,500,000
Borrow, Type C	CY	\$12.00	0	\$ -
Sheet Pile (Security Fence)	Tons	\$3,000.00	3,166	\$ 9,498,000
Drainage System	LS		1	\$ 1,000,000
Surveying - All	LS	\$100,000	1	\$ 150,000
Traffic Control	LS	\$100,000	1	\$ 100,000
Cost per Mile (millions)			\$19.14	
			Total:	\$ 12,248,000
			Total w/ 15% Contingency:	\$ 14,085,200

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

Cherry Hill

Construction Cost Estimate

2008 Dollars

Item	Unit	Cost/ Unit	Qty		Total Cost
Clearing and Grubbing	Acre	\$5,000.00	35	\$	177,450
Clearing	Acre	\$4,000.00	5	\$	21,120
Common Excavation	CY	\$5.00	8,830	\$	44,150
Borrow, Type A	CY	\$20.00	45,377	\$	907,540
Borrow, Type C	CY	\$20.00	216,843	\$	4,336,860
Stone Mastic	TN	\$90.00	2,405	\$	216,450
AC Pavement, Type II Cl A	TN	\$82.00	2,405	\$	197,210
Base Course	TN	\$25.00	14,518	\$	362,950
Sheet Pile (Open Cell)	Tons	\$3,000.00	1,321	\$	3,963,000
Sheet Pile (Cantilevered)	LF	\$2,800.00	2,000	\$	5,600,000
Military Underpass	LS		1	\$	3,300,000
Port Egress Intersection	LS		1	\$	5,500,000
Topsoil and Seed	MSF	\$400.00	31	\$	12,533
Concrete Barrier	LF	\$75.00	6,758	\$	506,880
Security Fencing (Chain Link)	LF	\$70.00	6,758	\$	473,088
Curb and Gutter	LF	\$25.00	20,166	\$	504,150
Striping	LF	\$1.50	13,517	\$	20,275
Signs	SF	\$80.00	1,000	\$	80,000
Drainage System	LS		1	\$	842,000
Surveying - All	All	\$200,000	-	\$	200,000
Cost per Mile (millions)			\$42.60		
			Total:	\$	27,265,656
			Total w/ 15% Contingency:	\$	31,355,505

KNIK ARM CROSSING BASIC COST OF CONSTRUCTION ESTIMATE - 35% DESIGN UPDATE DECEMBER 2008

**Government Hill
Construction Cost Estimate
2008 Dollars**

Item	Unit	Cost/ Unit	Qty	Total Cost
Common Excavation	CY	\$5.00	30,000	\$ 150,000
Excavation (Special)	CY	\$10.00	30,000	\$ 300,000
Excavation (Waste)	CY	\$12.00	45,000	\$ 540,000
Borrow, Type A	CY	\$18.00	39,000	\$ 702,000
Borrow, Type C	CY	\$12.00	169,000	\$ 2,028,000
Asphalt	TN	\$90.00	5,700	\$ 513,000
Concrete Paving	CY	\$1,000.00	2,070	\$ 2,070,000
Base Course	TN	\$25.00	11,400	\$ 285,000
Guardrail	LF	\$35.00	14,400	\$ 504,000
Cut & Cover Tunnel (6 lanes)	LS	\$41,000,000	1	\$ 41,000,000
Retaining Walls	LS	\$13,000,000	1	\$ 13,000,000
Reconstruct Intersection	LS	\$1,000,000	1	\$ 1,000,000
Connection to A-C Couplet	LS	\$1,000,000	1	\$ 1,000,000
Miscellaneous	All		-	\$ 2,000,000
Cost per Mile (millions)			\$65.09	
			Total:	\$ 65,092,000
			Total w/ 15% Contingency:	\$ 74,855,800